

Fig. 1.

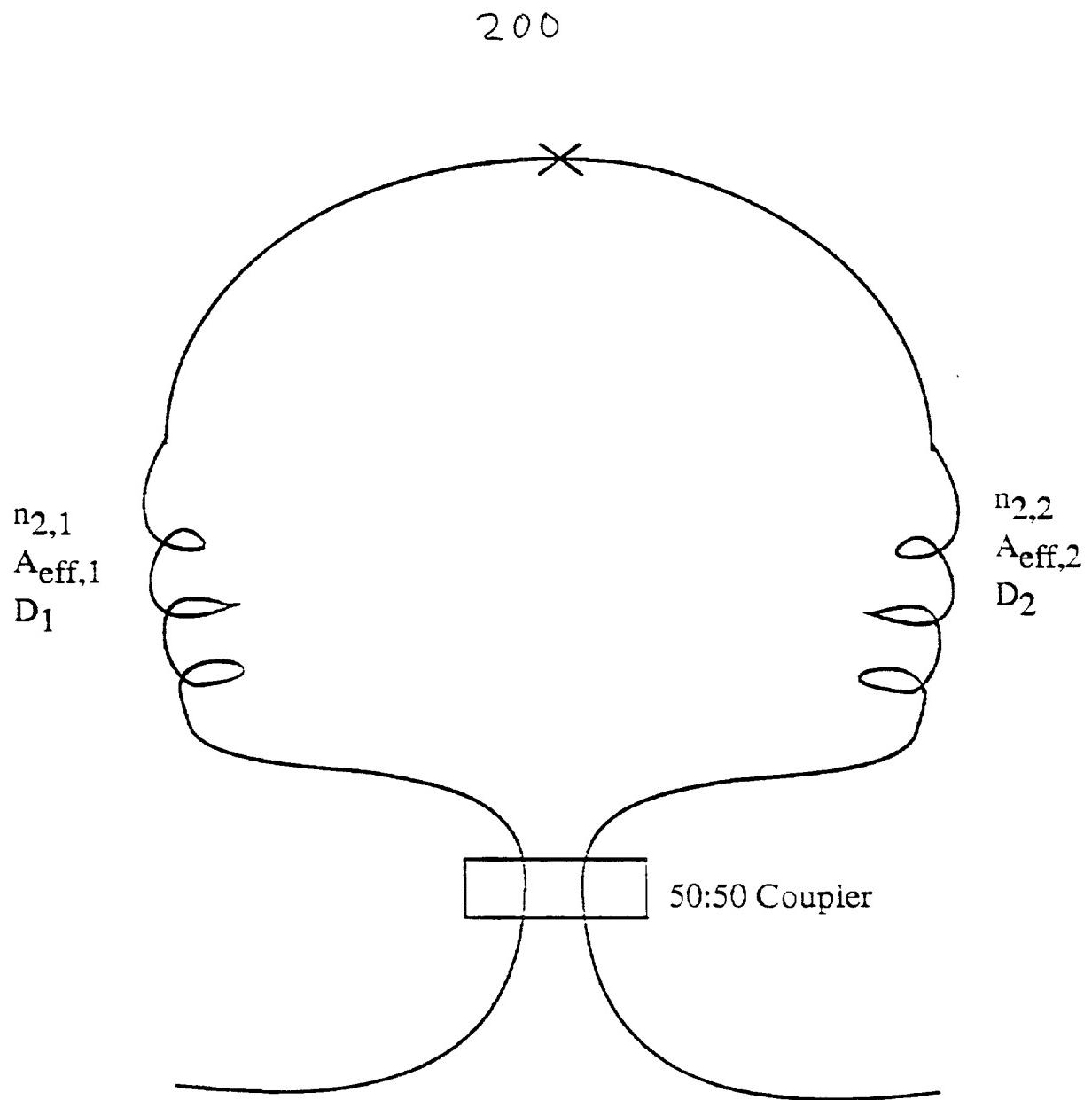


Fig. 2.

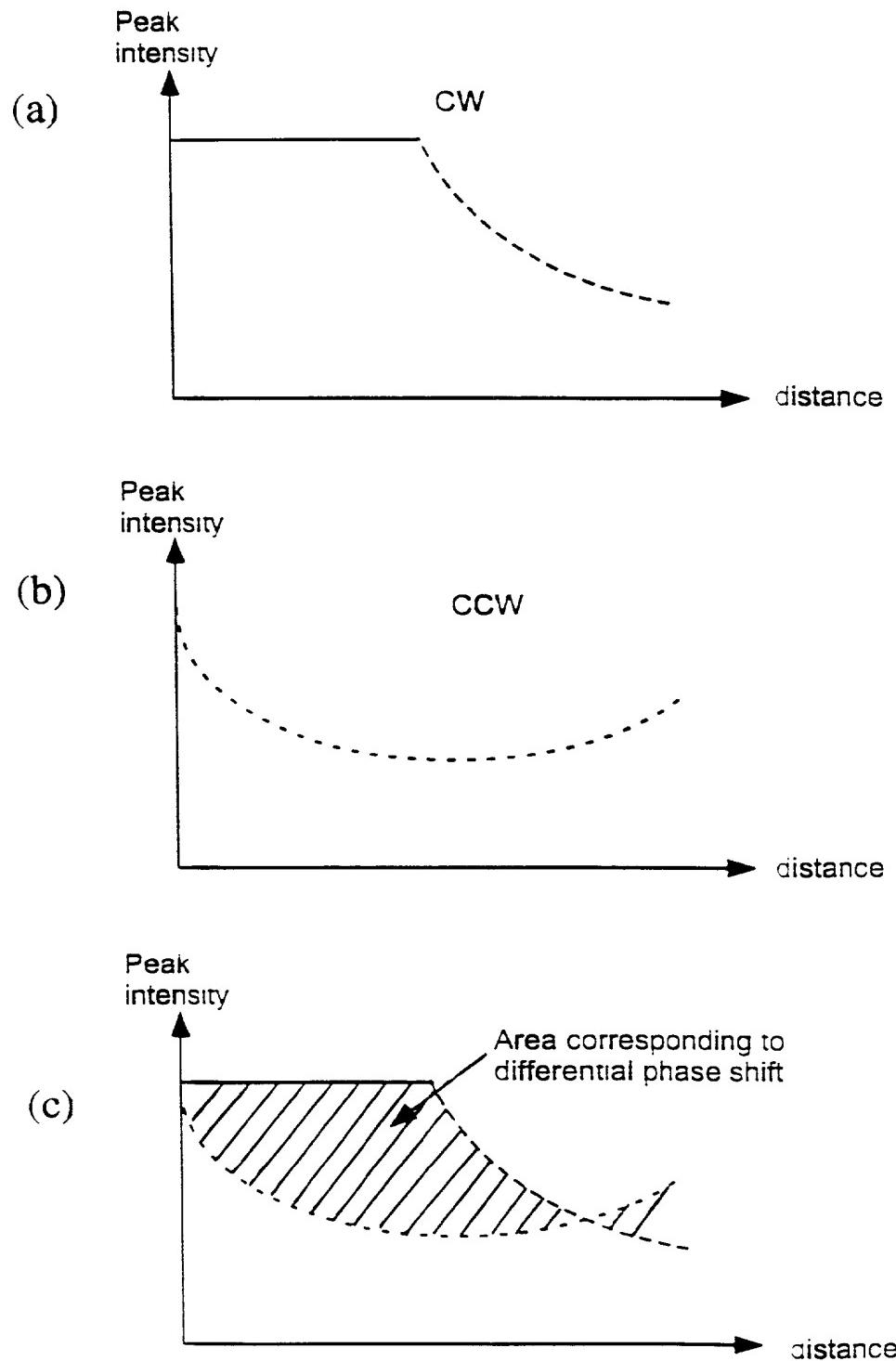


Fig. 3

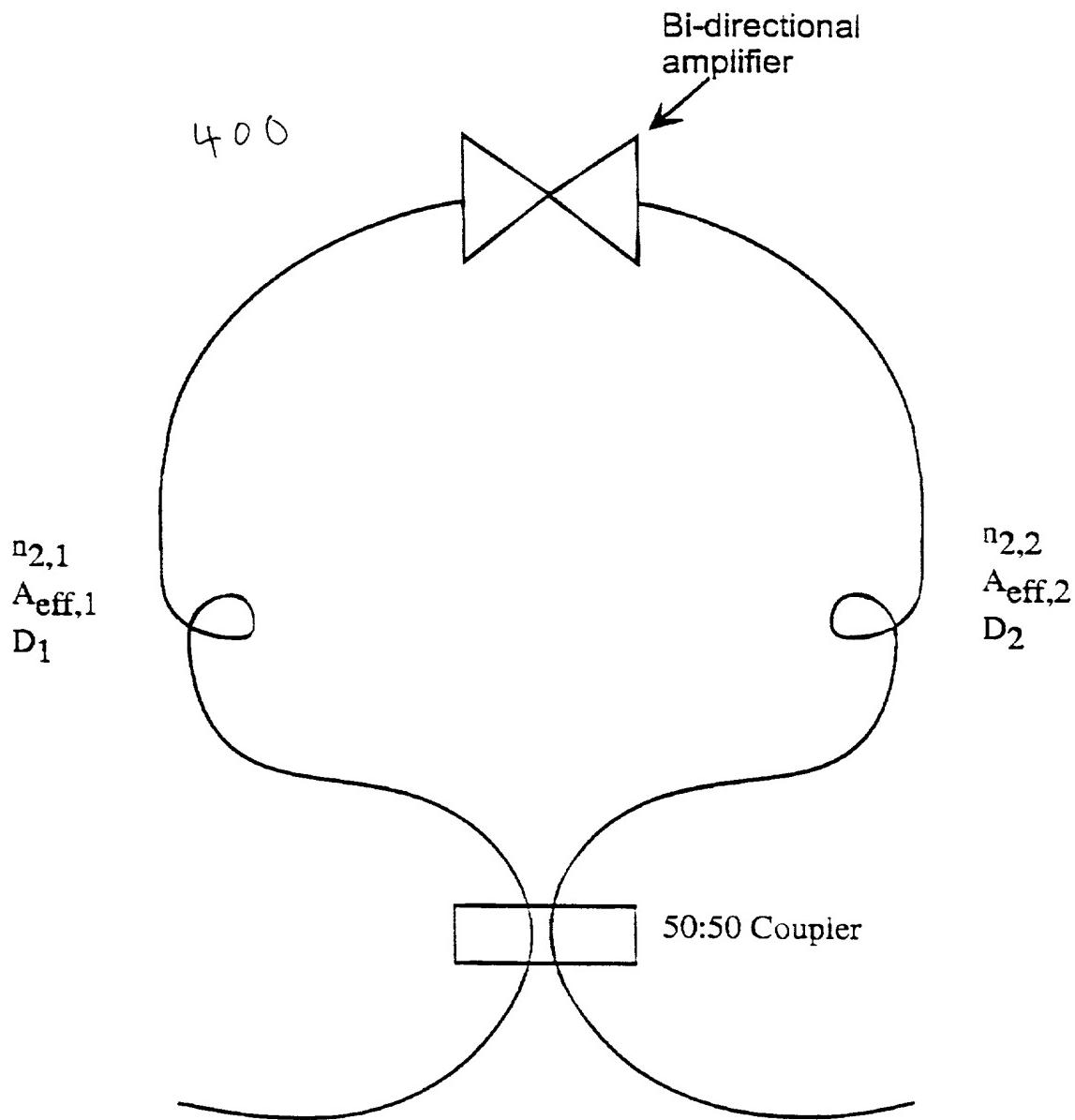


Fig. 4.

500

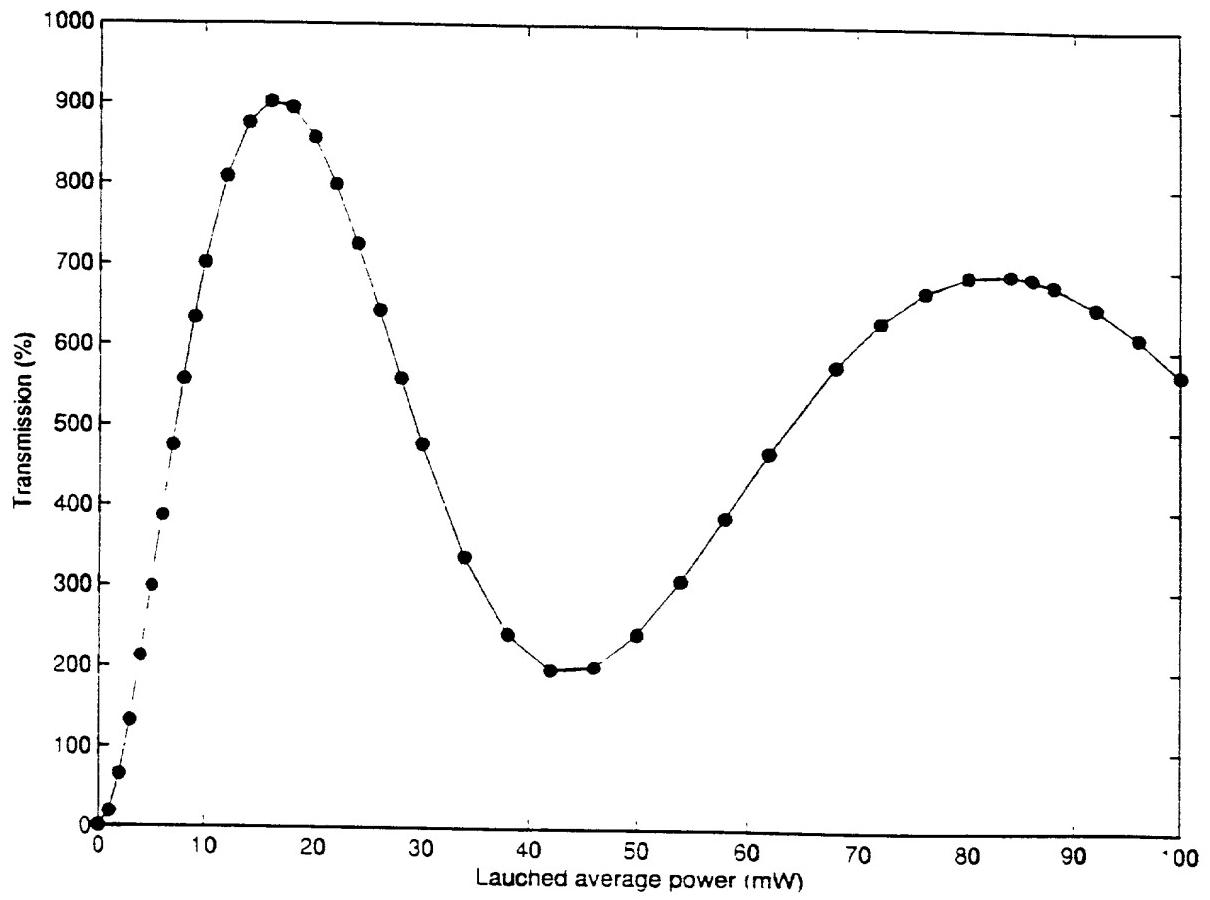


Fig. 5.

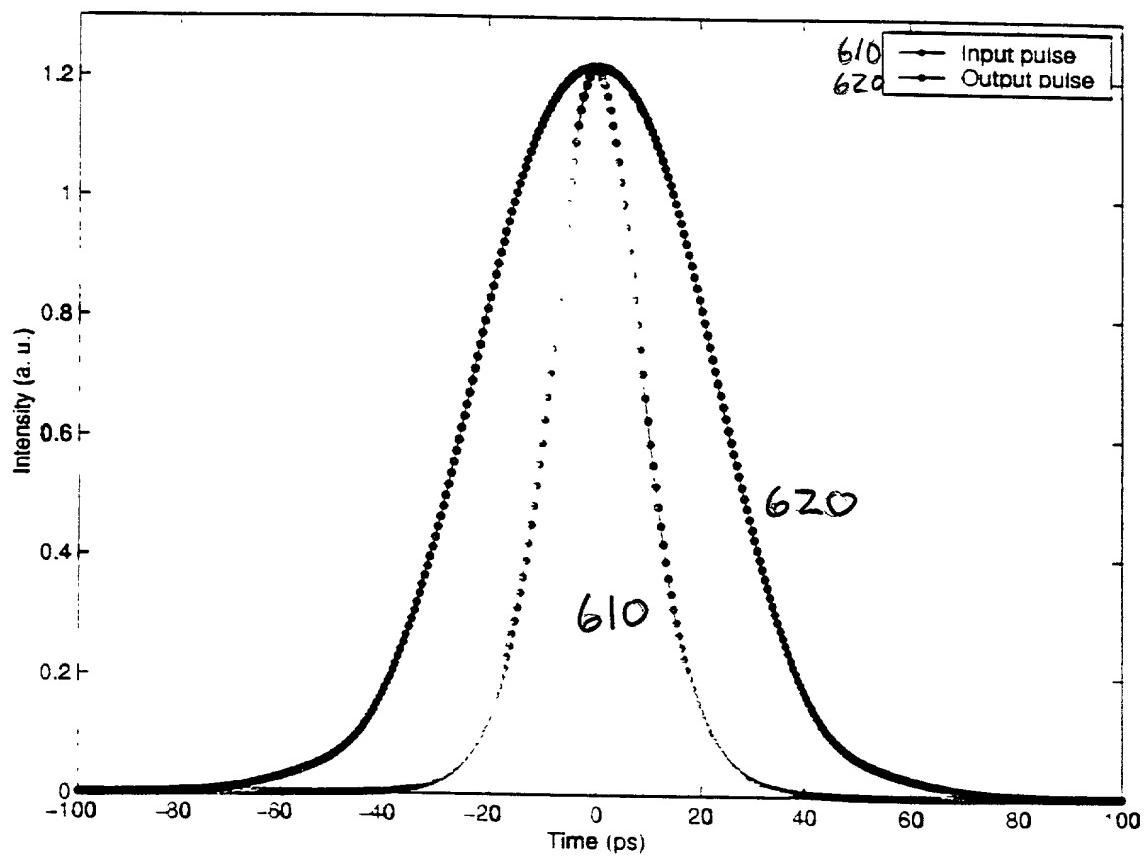


Fig. 6 (a)

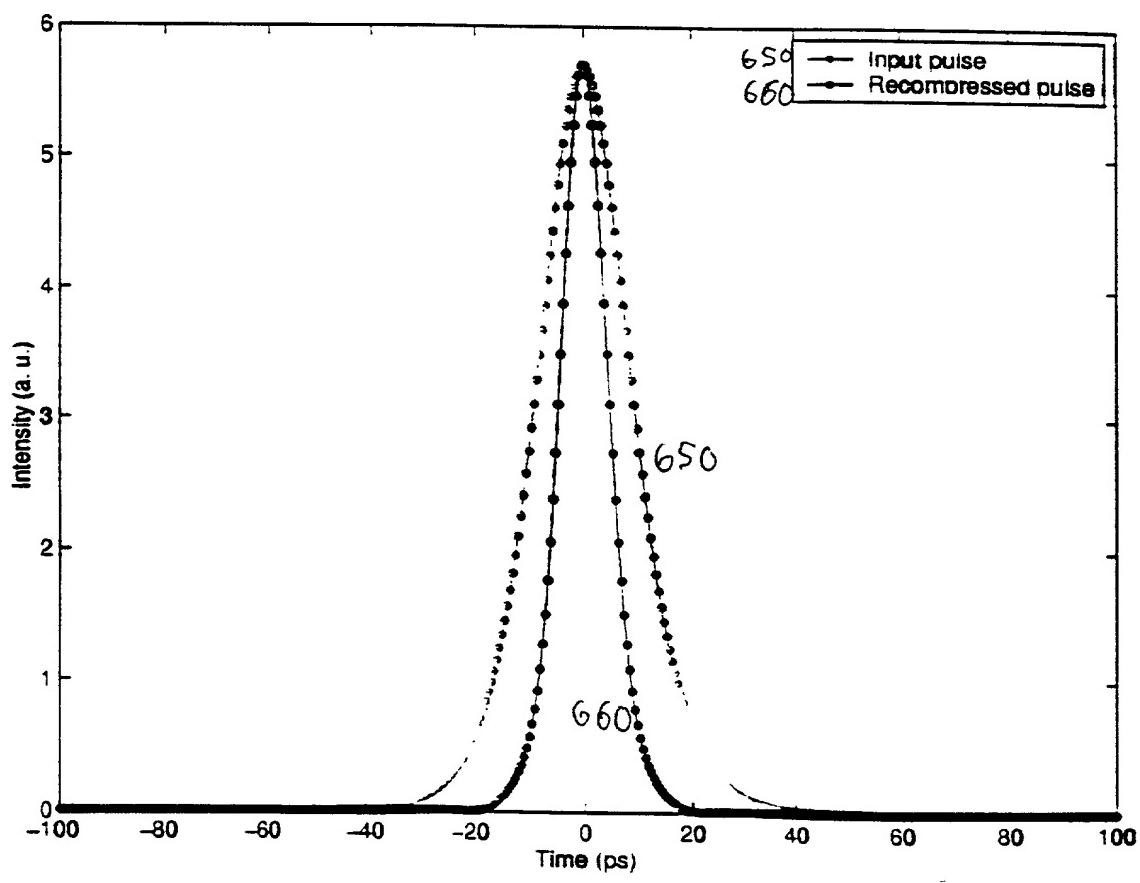


Fig. 6 (b)

700

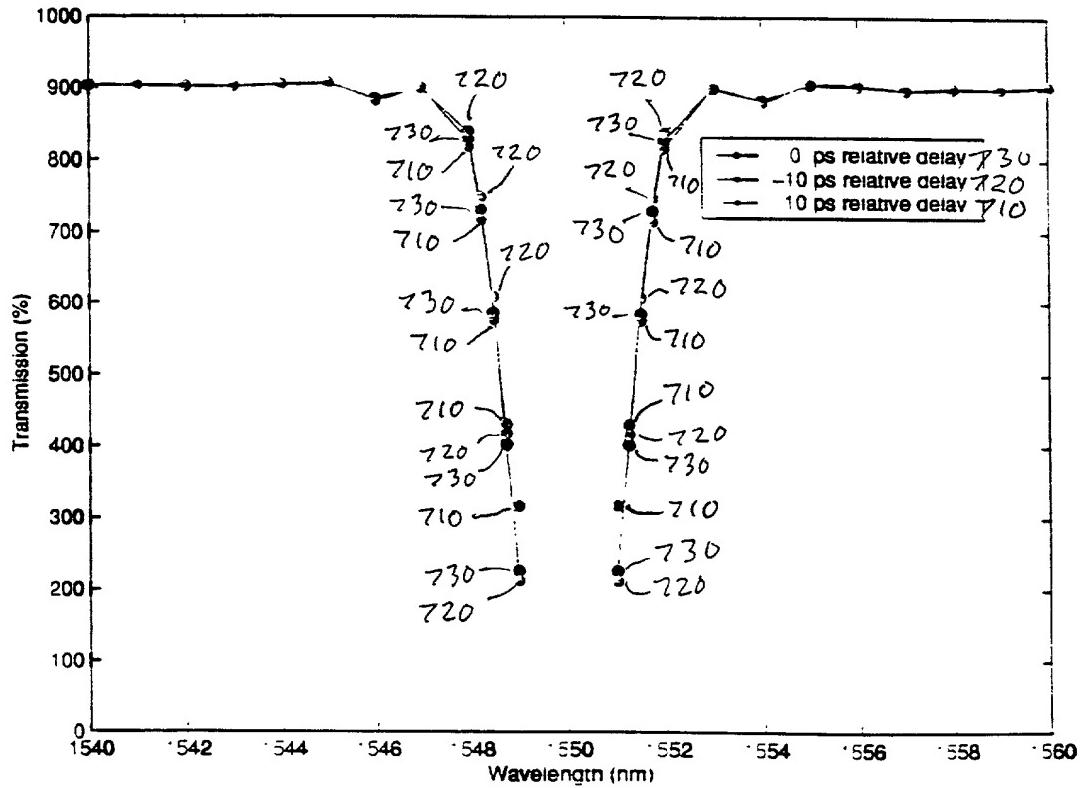


Fig. 7

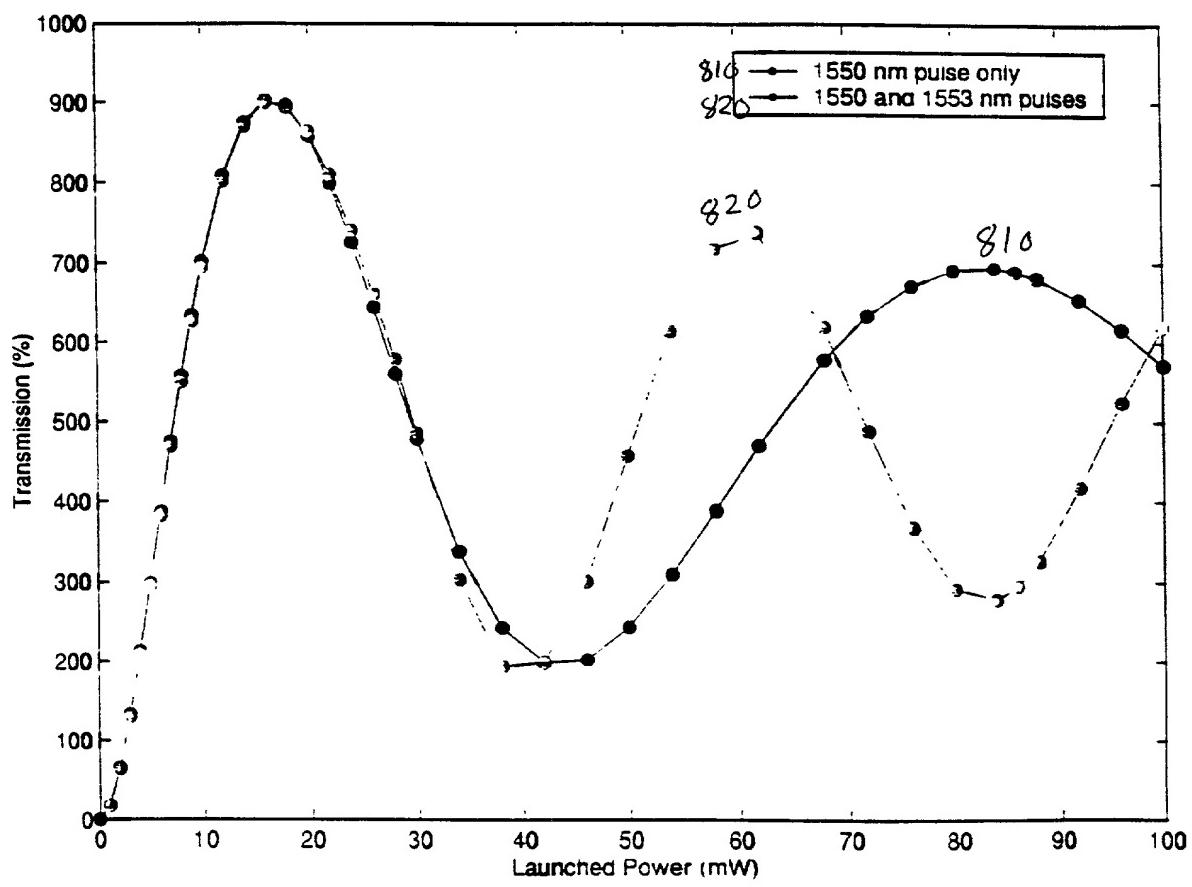


Fig. 8

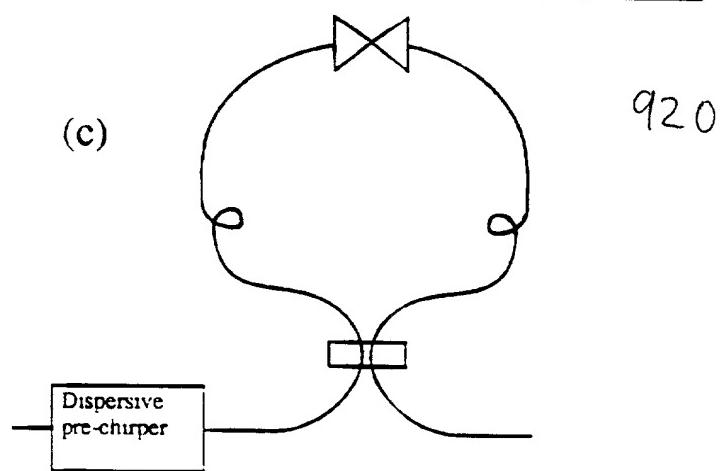
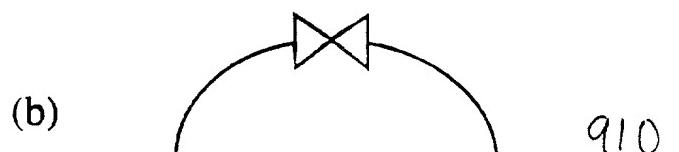
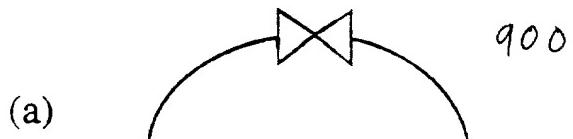


Fig. 9

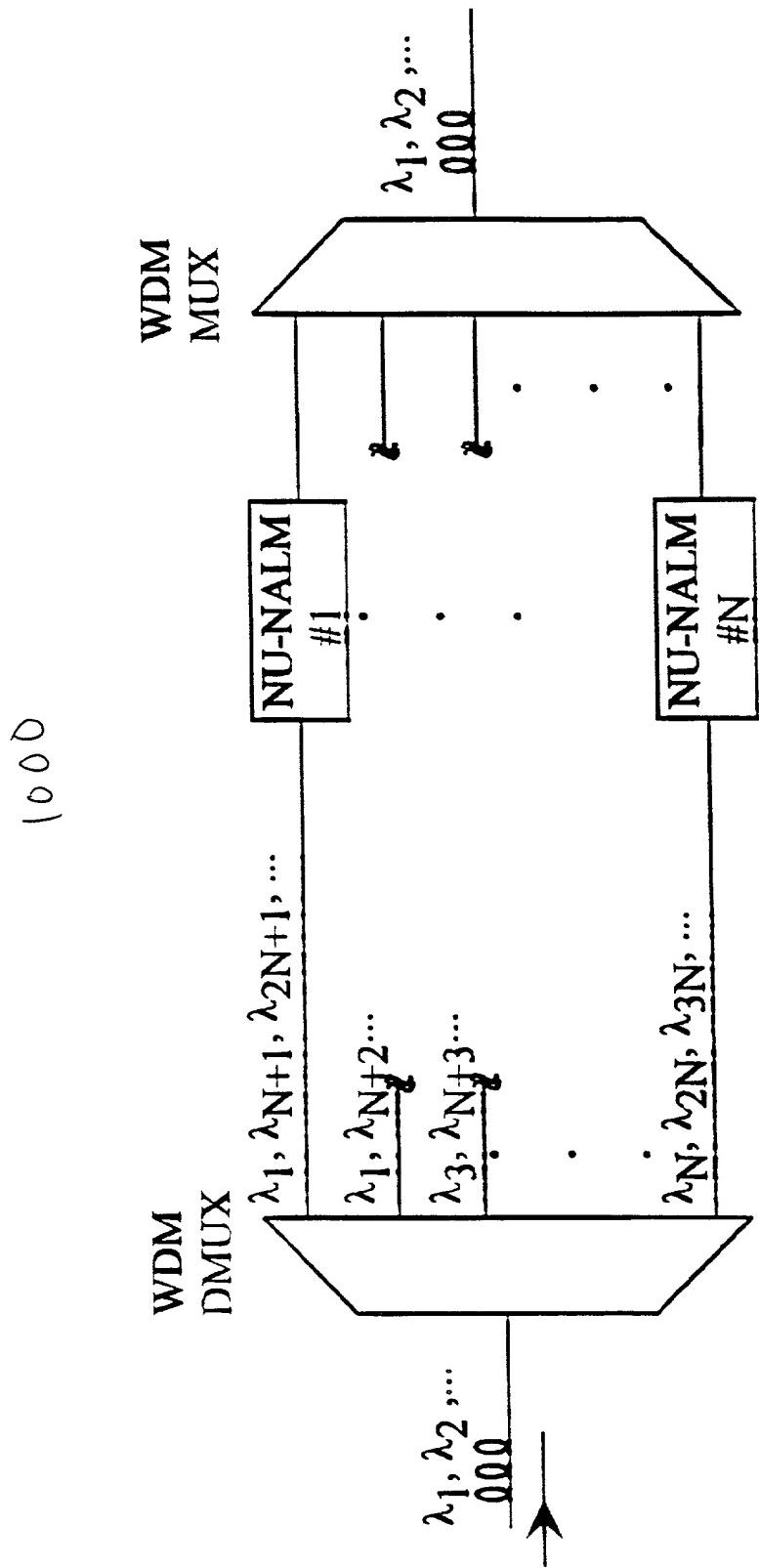


Fig 10.

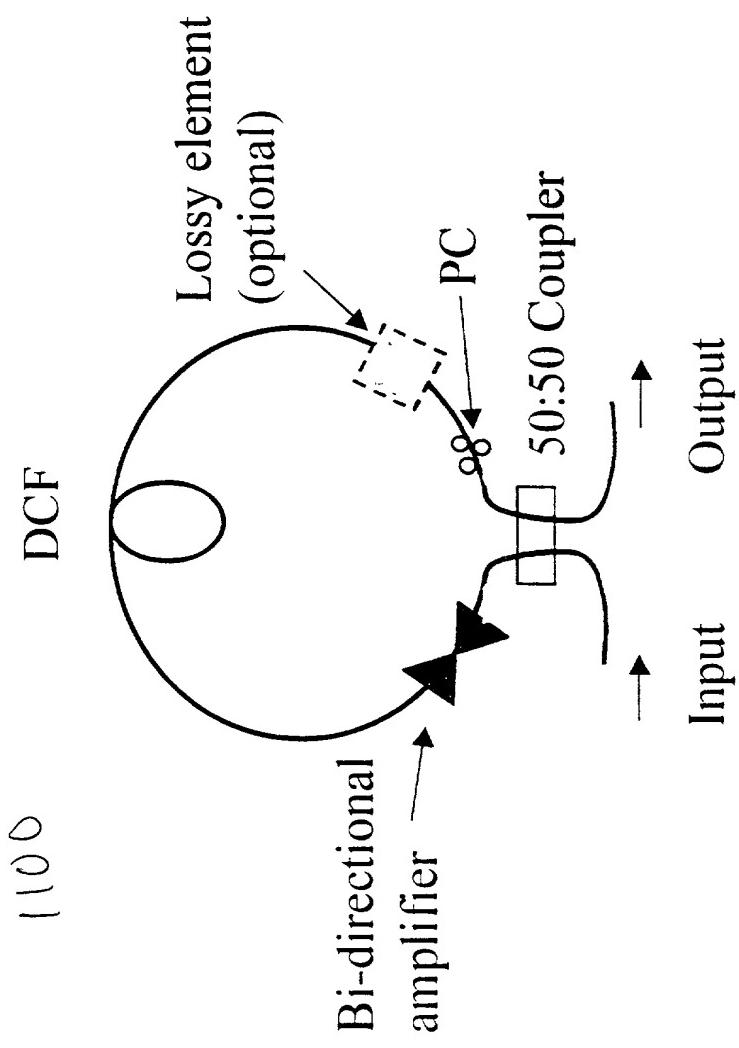


Fig. 11

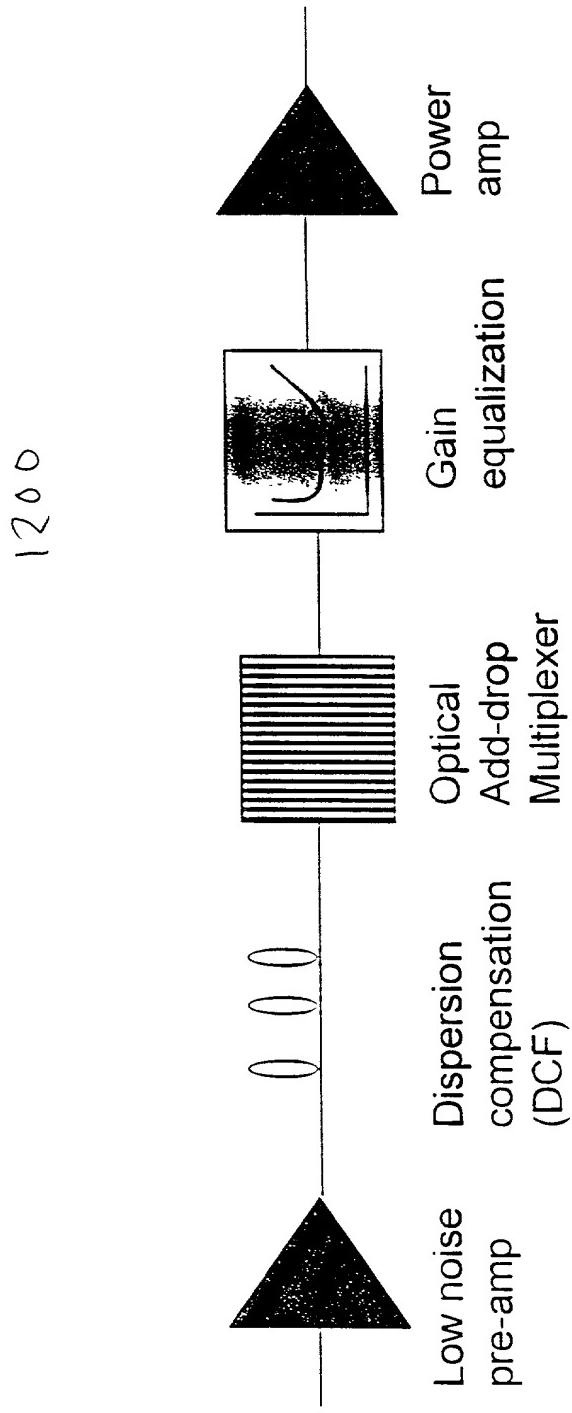


Fig. 12

1300

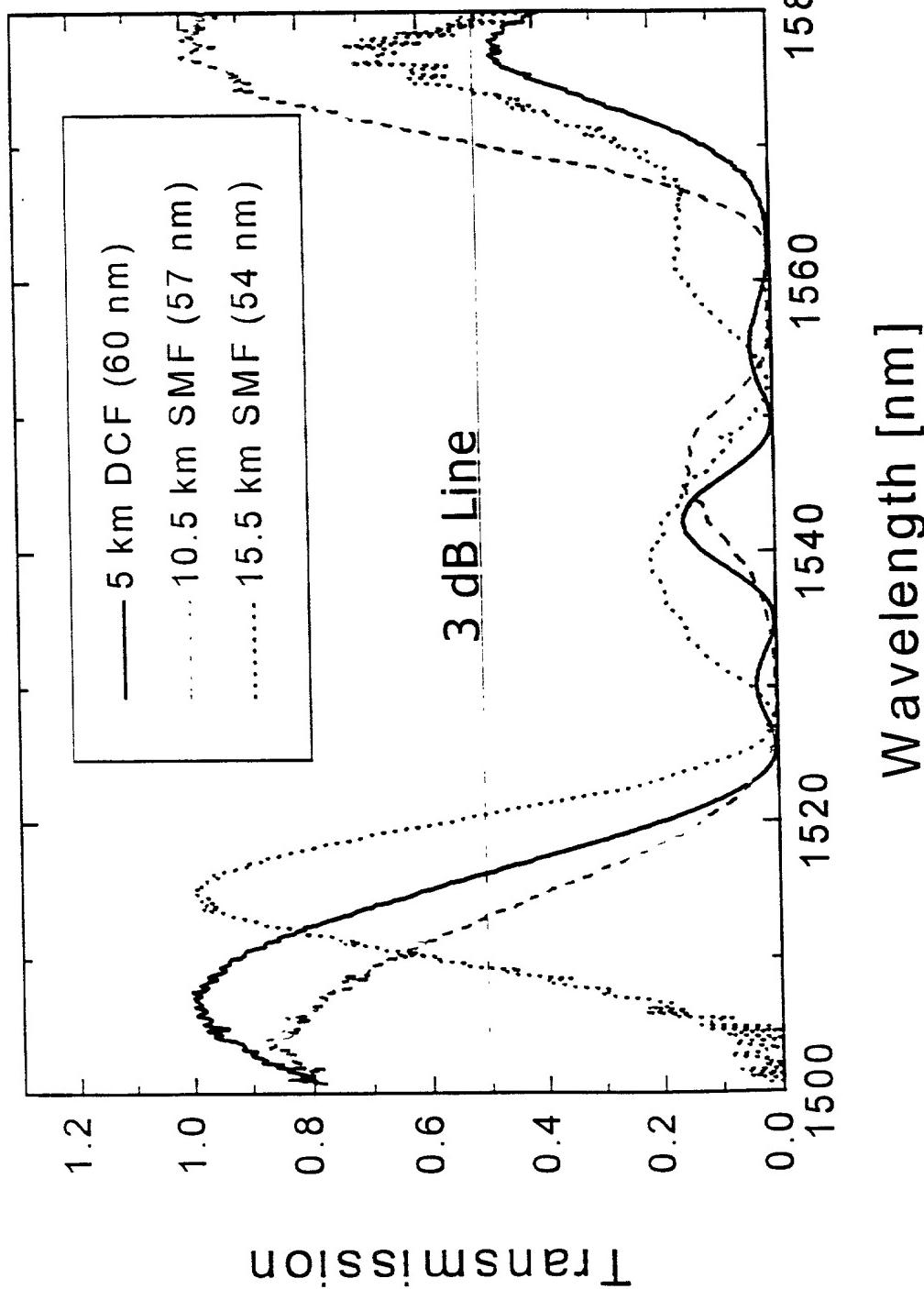
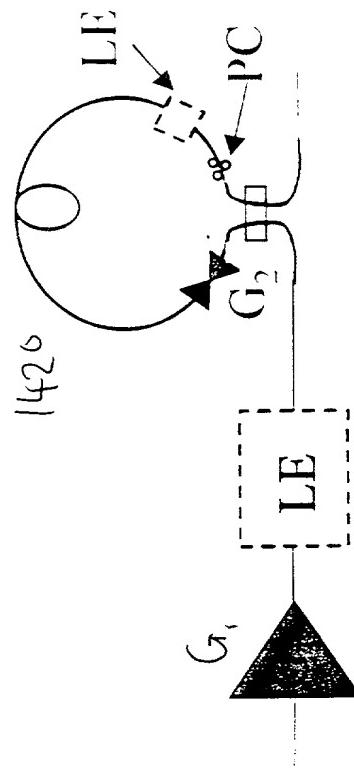
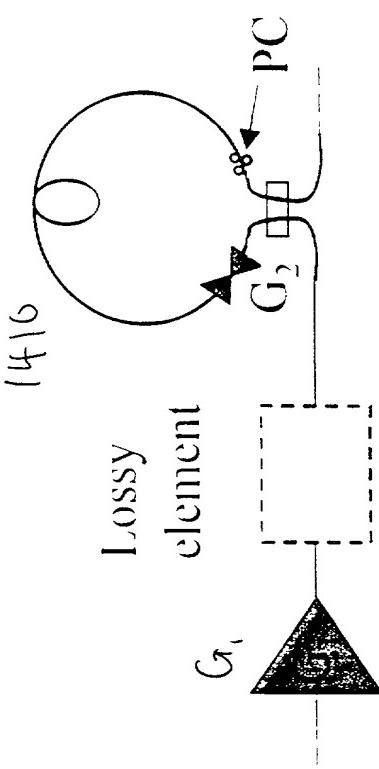


Fig. 14(c)

P_{in} (dBm)	G_1 (dB)	G_2 (dB)	P_{out} (dBm)
-11	0	30	9.18
-11	5	25	9.17
-11	10	20	9.16
-11	15	15	9.10



1406

1430

1560

Circulator
Optical
amplifier

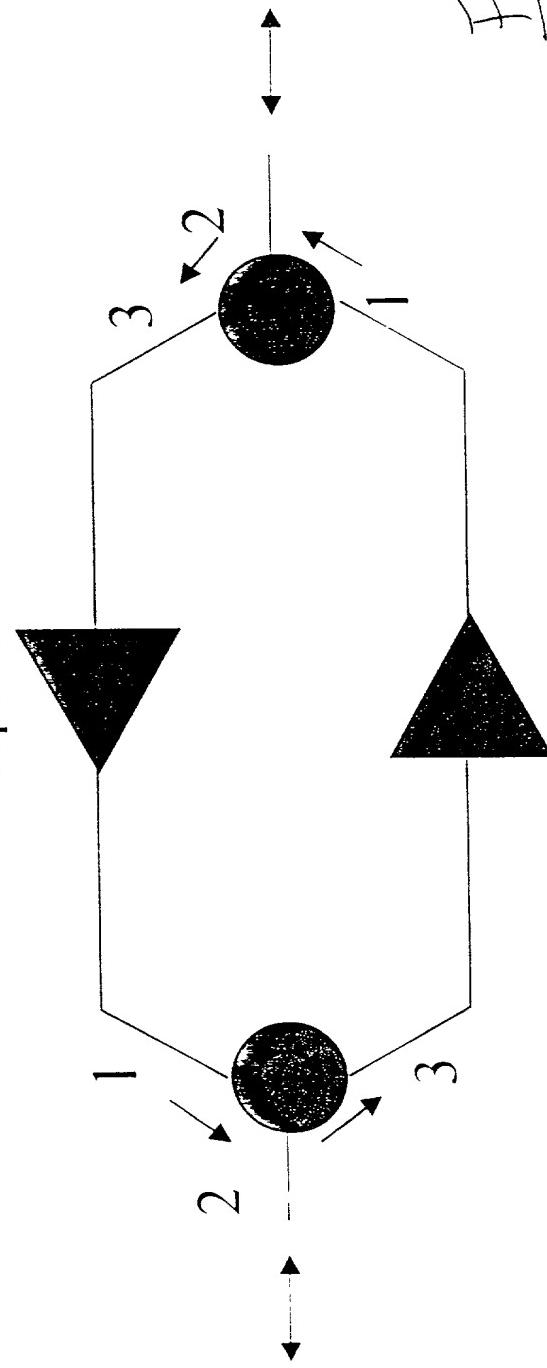


Fig. 15

160

WDM
DEMUX

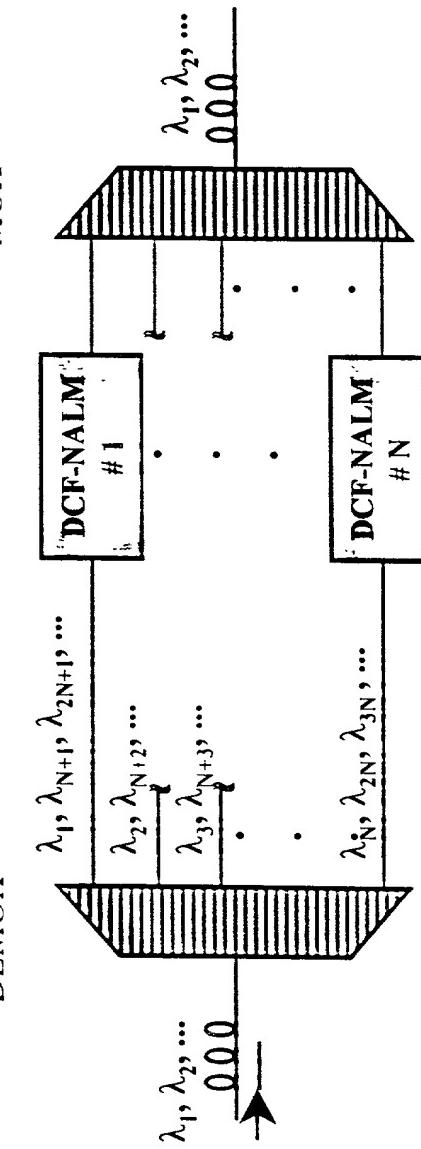


Fig. 16

1760

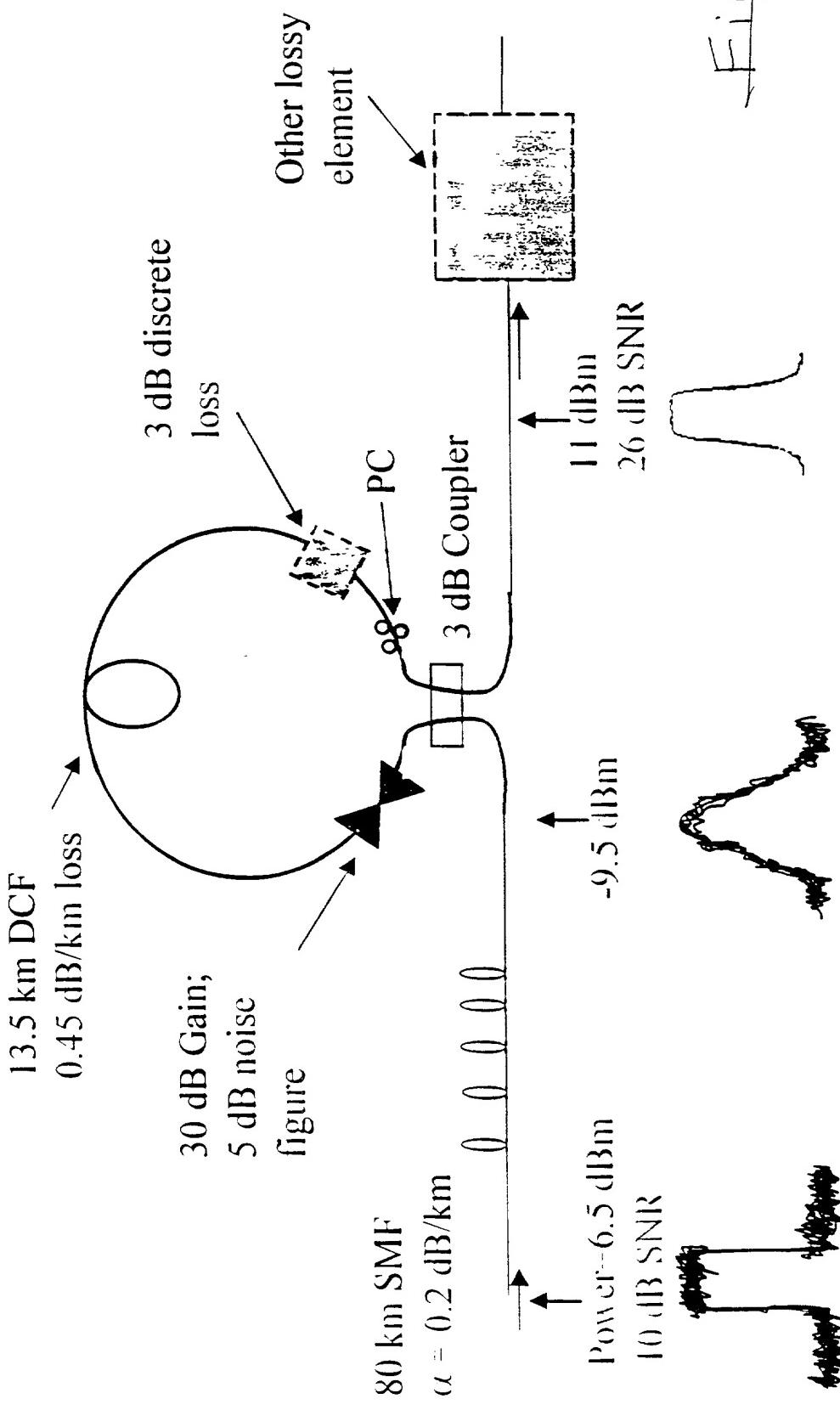
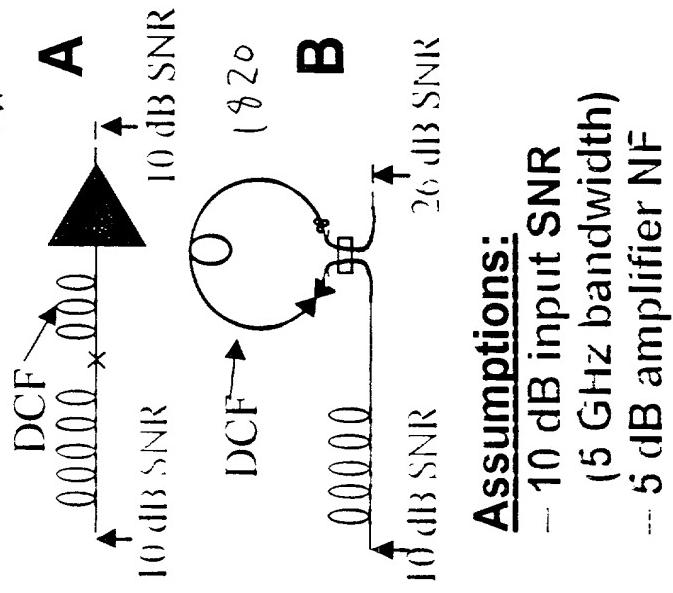


Fig. 17

Fig. 18 (a)



18(a)

Assumptions:

- 10 dB input SNR
- (5 GHz bandwidth)
- 5 dB amplifier NF

Results:
- 16 dB improvement in SNR

Fig. 18 (b)

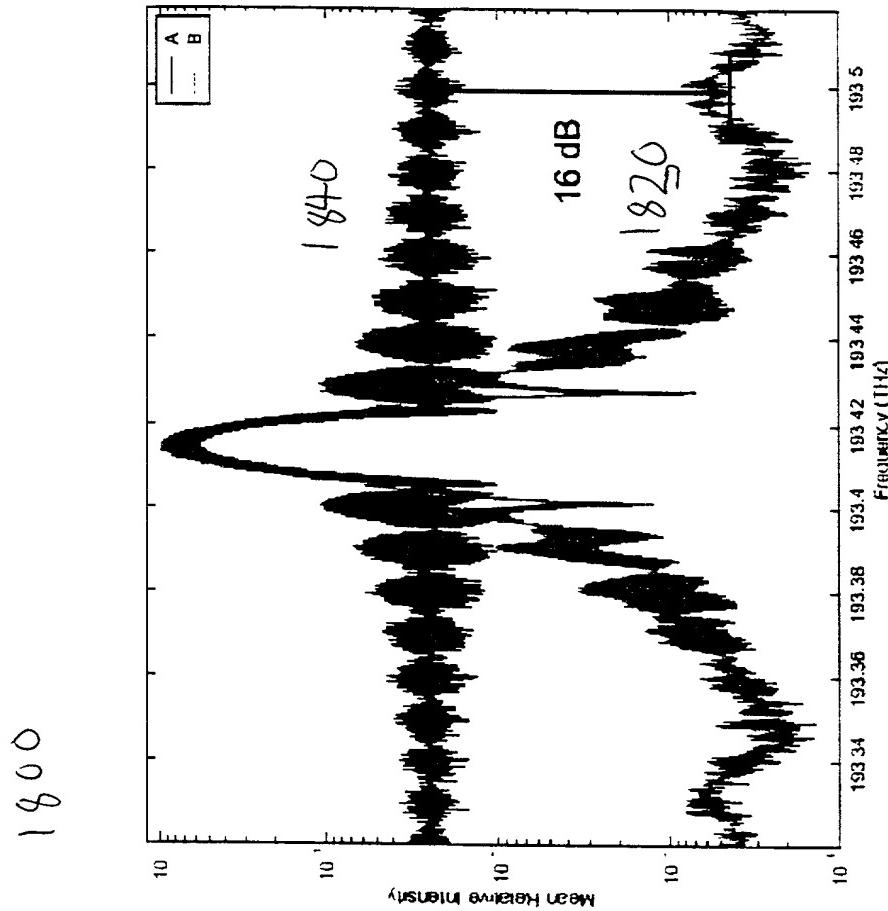


Fig. 18 (c)

Fig. 19

1900

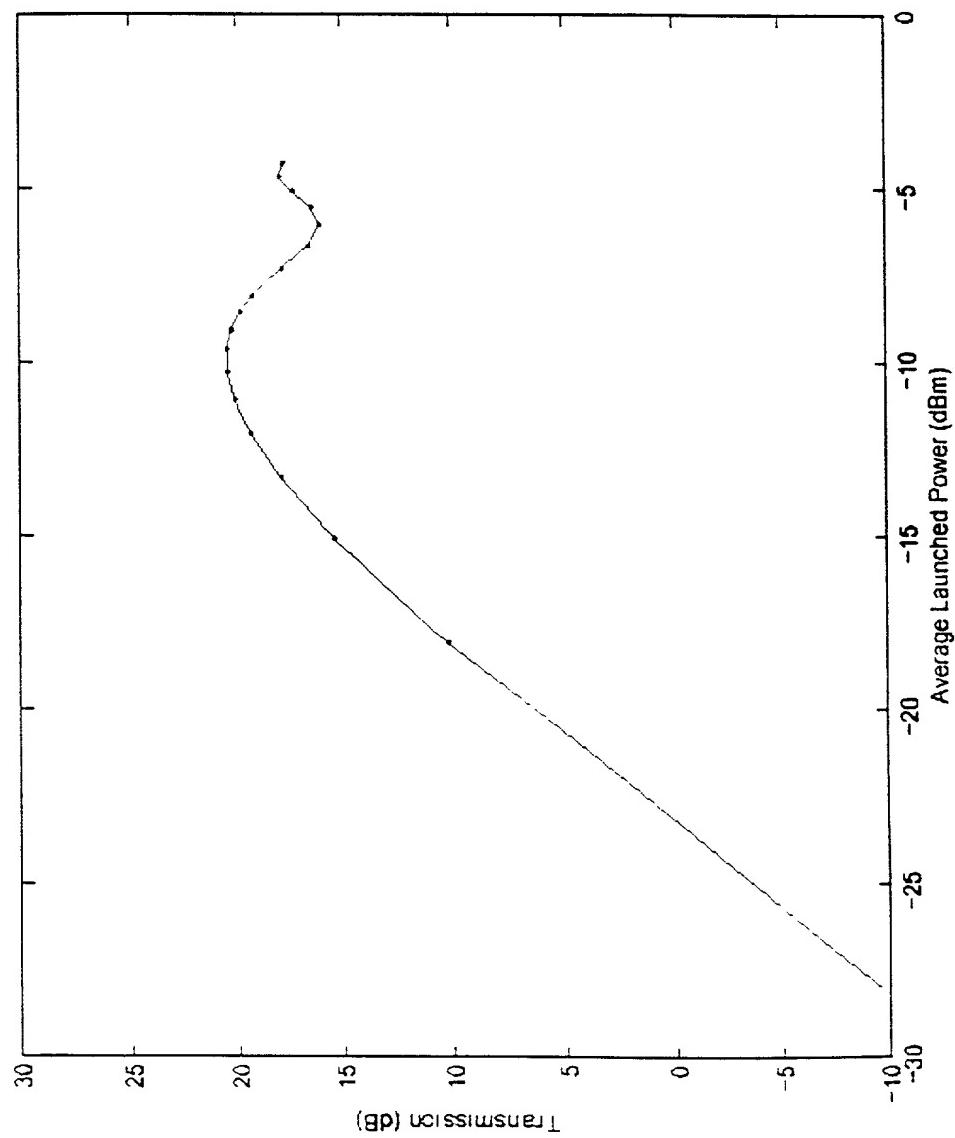


Fig. 20

